

**Motic**<sup>®</sup>

MORE THAN MICROSCOPY



**PANTHERA**  
SERIES

SHIFT YOUR LAB



## FRIENDLY

The Panthera Series has been carefully designed keeping in mind Form & Functionality. The components chosen for the Panthera Series have been analysed down to the last detail to find the perfect design in terms of practicality and aesthetics. An example of that is the patented rackless stage, compact and with a never-seen-before sample holder that will surprise you.

User-friendly Design

Carrier handle

Power cord storage

Integrated USB port for camera power

Compact rackless stage & sample holder

## PERFECTIONIST

Optics and accessories for the Panthera Series have been especially designed to get maximum performance from all of its components and getting the most out of its possibilities, offering options to fit all kind of needs. The new Plan UC objectives stand out for its ultra-high contrast and very flat Field of View, which together with the UC Wide-field Eyepieces brings you bright, detailed and sharp images for new insights.

**Plan UC**  
**20X/0.45**  
**∞ / 0.17**

New Plan UC objectives

Plan UC Widefield eyepieces 10X/22  
Automatic LED condenser  
Abbe Condenser

Smart LED nosepiece indicator

- Motic LightTracer
- Coded nosepiece
- Digital light intensity knob
- LED illumination
- HAL/LED easy interchangeability

## BRILLIANT

Panthera's light management system stands out for its automation. The digital intensity knob teams up with the coded LED nosepiece and the illuminator to offer you information about the light intensity, or the microscope's mode, as well as memorizing the light intensity of each objective. The combination of the LED nosepiece and LED condenser, automates the workflow even more, as it also automatically loads a specific N.A. depending on the objective in the lightpath. Interchangeability between Halogen/LED illumination or different 3WLED colour temperatures is very easy thanks to a drawer at the base of the stand.

Plan UC  
20X/0.45

PI  
A

Smart Microscope



- ImagingOnDevice
- HDMI
- Wi-Fi
- Ethernet
- USB
- Panthera App
- QRlink
- DigiClass

# SMART

If there's a word to define the Panthera Series, it is Smart. It has been created to make your workflow easier, with the intent of it not being just another work tool, but a fellow worker to trust in. The Smart CAM digital head and its ImagingOnDevice System allows you to instantly capture what you are viewing with the tip of your finger. Work in FullHD through the HDMI port directly on a screen with the help of a mouse, or work with your Tablet and the Panthera App. Thanks to the QRlink system, you can send your live image to your tablet or smartphone by simply scanning the QR-code on the top of the Tubehead cover. You can also make a digital class by connecting the student's microscopes to the teacher's through the ethernet port. The possibilities are endless!



## VERSATILE

From configurations especially thought for the educational field, up to the most advanced models for clinics and laboratories, there's a Panthera model suitable for every user. When it comes to industrial and material sciences applications, the Panthera TEC Series with Metallurgical and Polarization stand configurations, together with a wide range of intermediate modules and specific optics, becomes the perfect ally for inspection and analysis.

Panthera TEC MAT  
Smart Darkfield

- Panthera School
- Panthera University
- Panthera Classic
- Panthera Life Sciences
- Panthera HD
- Panthera TEC POL

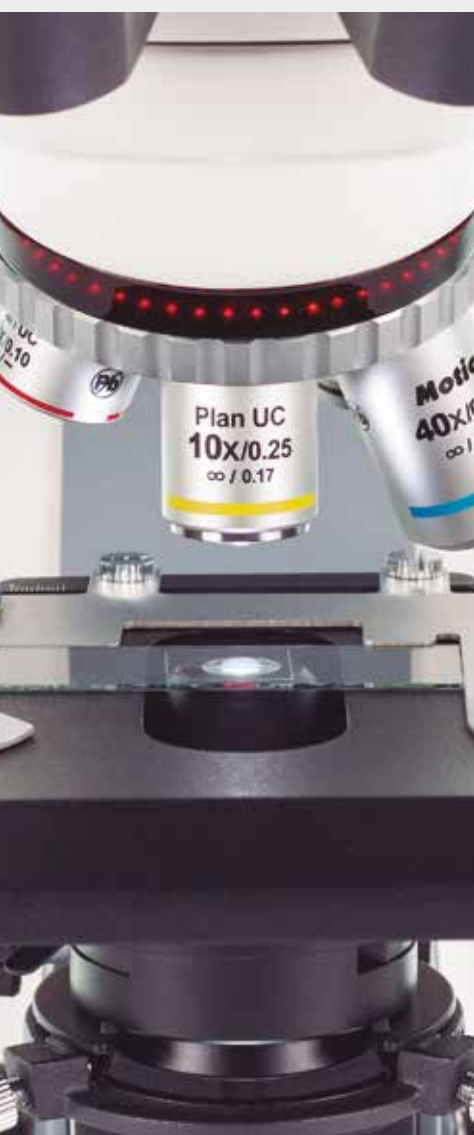
# PANTHERA

## THE PERFECT LABMATE

Panthera, the new Motic's upright microscope line revolutionizes the conventional microscope concept by creating a Smart Microscope. Its design, together with its new optics and digital capabilities, makes it the microscope of tomorrow.

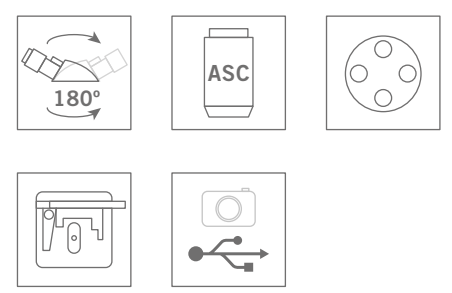


MODELS OVERVIEW	FANTHERA S SCHOOL	FANTHERA U UNIVERSITY	FANTHERA C CLASSIC	FANTHERA L LIFE SCIENCES	FANTHERA HD HIGH DEFINITION	FANTHERA TEC MAT	FANTHERA TEC POL	MODELS OVERVIEW
<b>Eyepieces</b>	N-WF10X/20	UC-WF10X/22	UC-WF10X/22	UC-WF10X/22	-	UC-WF10X/22	UC-WF10X/22	<b>Eyepieces</b>
<b>Head</b>	Bino / trino / 180°	Bino / trino	Bino / trino	Digital Smart CAM	Digital Smart CAM	Bino / trino / Digital Smart CAM	Bino / trino	<b>Head</b>
<b>Objectives</b>	Plan Achromat 4X up to 40X	Plan UC Achromat 4X up to 100X	Plan UC Achromat 4X up to 100X	Plan UC Achromat 4X up to 100X	Plan UC Achromat 4X up to 100X	LM Plan / LM Plan BD Achromat 5X up to 100X	Plan UC Achromat (Strain-free) 4X up to 60X	<b>Objectives</b>
<b>Nosepiece</b>	quadruple	quintuple / coded	quintuple	quintuple / coded	quintuple / coded	quintuple / coded	quintuple / coded	<b>Nosepiece</b>
<b>Stage</b>	mechanical stage	rackless mechanical stage	rackless mechanical stage	rackless mechanical stage	rackless mechanical stage	3x2" / 6x4" mechanical stage	360° Rotatable stage	<b>Stage</b>
<b>Condenser</b>	N.A. 0.90 /1.25 Abbe	N.A. 0.90 /1.25 Abbe	N.A. 0.90 /1.25 Abbe	N.A. 0.90 /1.25 Abbe	N.A. 0.90 /1.25 Abbe	LED condenser	N.A. 0.90 Abbe (strain-free)	<b>Condenser</b>
<b>Transmitted illumination</b>	LED	3W LED	3W LED / 30W HAL interchangeable	3W LED / 30W HAL interchangeable	3W LED / 30W HAL interchangeable	-	3W LED / 30W HAL interchangeable	<b>Transmitted illumination</b>
<b>Incident illumination</b>	-	-	-	-	-	3W LED	3W LED (EpiPOL)	<b>Incident illumination</b>
<b>Koehler</b>	fixed	fixed	yes	yes	yes	-	yes	<b>Koehler</b>
<b>USB for external camera</b>	yes	yes	yes	no	no	optional	yes	<b>USB for external camera</b>
<b>Smart CAM - ImagingOnDevice</b>	no	no	no	yes	yes	optional	no	<b>Smart CAM - ImagingOnDevice</b>
<b>USB for external Wi-Fi device</b>	no	no	no	optional	optional	optional	no	<b>USB for external Wi-Fi device</b>
<b>HDMI touch screen</b>	no	no	no	optional	optional	optional	no	<b>HDMI touch screen</b>
<b>Digital intensity knob</b>	no	yes	no	yes	yes	yes	yes	<b>Digital intensity knob</b>
<b>LED nosepiece light int. indicator</b>	yes	yes	yes	yes	yes	yes	yes	<b>LED nosepiece light int. indicator</b>
<b>Contrast techniques</b>	BF, PH, DF	BF, PH, POL, DF, EpiLED FL, MMC	BF, PH, POL, DF, EpiLED FL (with LED mouse), MMC	BF, PH, POL, DF, EpiLED FL, MMC	BF, EpiLED FL	<b>EpiBF:</b> BF / DIC / Simple POL <b>EpiBD:</b> BF / Smart DF / Simple POL <b>EpiHAL BD:</b> BF / DF / Simple POL (HAL 50W) <b>EpiLED BD:</b> BF / DF / Simple POL (LED)	<b>Epi-BP:</b> POL <b>EpiPOL:</b> BF / POL	<b>Contrast techniques</b>



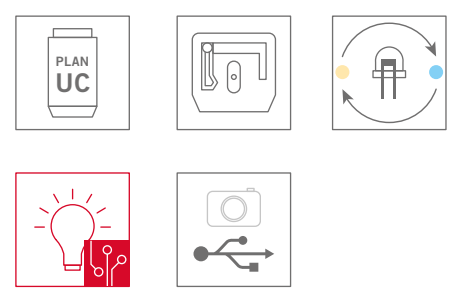
**Panthera S** is a school model, with a 180° rotatable head specially for space-saving storage. It has ASC optics and an extreme efficient low power illumination, allowing it to run on a Mobile BatteriePack for several hours.

The Panthera S is able to perform the following contrast methods: Phase contrast and Darkfield.



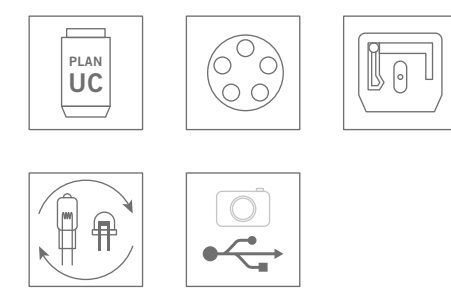
**Panthera U** is a University model, with "Motic LightTracer" digital illumination control and Premium Plan UC optics for University Teaching. It has a 3W LED illumination easily interchangeable with different color temperature LED bulbs, and a newly designed 2-slide compact rackless stage.

Thanks to a wide range of accessories, the Panthera U is able to perform the following contrast methods: Phase contrast, Darkfield, Modulation contrast, Polarization and EpiLED Fluorescence.



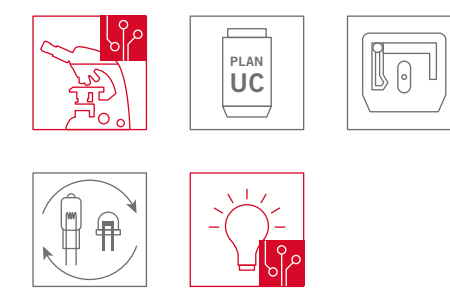
**Panthera C** is a model for the traditional Microscope user. It is a Classical all-rounder, providing both Halogen and LED Full Kohler illumination with manual light management. It has an integrated USB Camera Power Port and an LED light intensity illumination indicator in the nosepiece.

Panthera C is able to perform the following contrast methods: Phase contrast, Darkfield, Modulation contrast, Polarization and EpiLED Fluorescence.



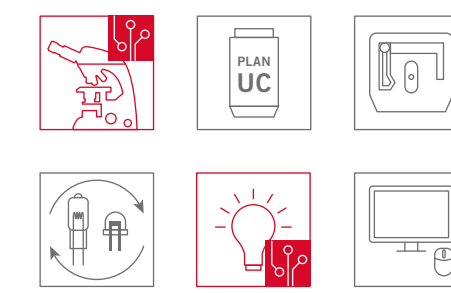
**Panthera L** is literally a Smart Microscope. It stands out for its unseen combination of build-in Digital Capabilities. Its Smart CAM digital head and the ImagingOnDevice System simplifies your daily work, allowing you to work directly from your microscope to an HDMI screen with the help of a mouse, or work with your tablet and the Panthera App. The LAN port offers you the option of running a DigiClass, or remote image sharing.

Panthera L can perform the following contrast methods: Phase contrast, Darkfield, Modulation contrast, Polarization and EpiLED Fluorescence.



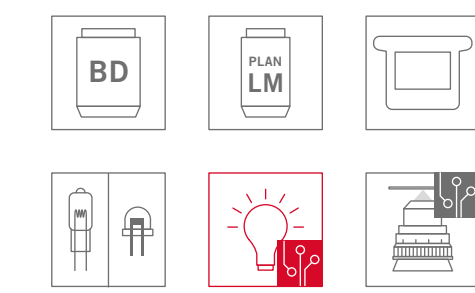
**Panthera HD** has the same Digital capabilities as the Panthera L, but it is meant to be used exclusively through digital means, as it does not have eyepiece tubes.

Panthera HD can perform EpiLED Fluorescence.



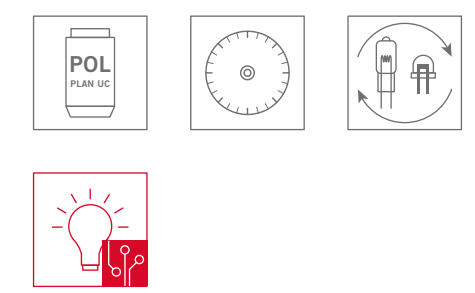
**PantheraTEC MAT** is a new generation of advanced EpiScopic metallurgical microscopes for inspection and analysis. It is composed of 4 models, you can choose between contrast methods like DIC, Darkfield, or the new Segmentable Darkfield, as well as Halogen or LED light sources. It is good to remark the superb imaging performance provided by Motic LM Plan BD objectives.

All of them have an LED condenser, "Motic LightTracer" digital illumination control, and can be upgraded with the Smart CAM and ImagingOnDevice system.



**PantheraTEC POL** is a new generation of EpiScopic Polarization Microscopes combined with a Bertrand lens system. The 2 models feature Strain-free Optics and Top grade Filters. The Bertrand lens system is both focusable and centerable. The pre-centered rotating stage with 160mm diameter has got a hard coated and chemical resistant surface; where a high precision ball-bearing mechanism ensures smooth rotation.

Choose between a simple model with incident illumination, capable to perform Polarization, and a more advanced model that can perform also Brightfield, with incident and transmitted illumination.







## SPECIAL FEATURES

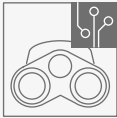
## ICONS GUIDE



Smart Microscope  
ImagingOnDevice

### ImagingOnDevice / Smart CAM

It is an integrated System that makes the microscope completely independent. Consists of both software and hardware built-in the microscope itself. It includes HDMI, USB and LAN (ethernet) ports so that you can work without a computer, either with a screen or projector and a mouse, or with a tablet. The Ethernet port allows you to connect the microscope to a network for image sharing or running a DigiClass. The digital light intensity knob can be also used to capture an image.



Smart CAM  
Digital head

### QRlink / Panthera App

Download for free the Panthera App to your mobile device. For linking the microscope with your tablet, just snap the QR code in the back of the microscope and you will see the live image immediately.



Outputs: USB for Wi-Fi  
USB, HDMI, LAN

### ImageRecall

Stores image and microscope data to recall illumination settings of a previous image (Objective, brightness and camera settings).



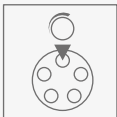
QRlink  
Panthera App



Smart Illumination  
Motic LightTracer

### Motic LightTracer

A combination of a coded nosepiece and a digital light intensity knob for a digital illumination control. It memorizes light intensity for each objective so that you don't have to adjust it again.



Coded nosepiece

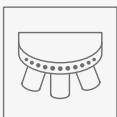
In the PantheraTEC, the light intensity knob is also used to switch from lower to upper illumination, besides for adjusting the light intensity.



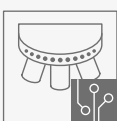
Digital light intensity knob

### LED nosepiece indicator

In the models featuring *Motic LightTracer*, it shows the light intensity and also the illumination mode. In the models without digital light management, it only shows the light intensity.



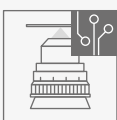
LED nosepiece indicator



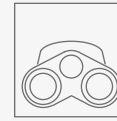
Smart LED  
nosepiece indicator

### LED condenser

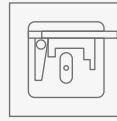
Integrated condenser and collector. In Auto setting mode, it will read the pre-set NA and required intensity automatically when the objective magnification is changed, no need to turn the N.A manually. In Manual setting mode, one can adjust the N.A. if needed.



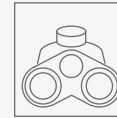
NEW Smart LED condenser



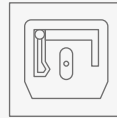
Binocular head



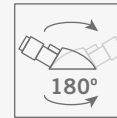
Mechanical stage



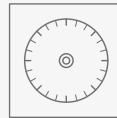
Trinocular head



NEW Rackless & Compact  
mechanical stage



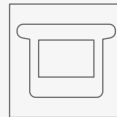
180° rotatable head  
(Storage saving space)



360° Polarization Stage



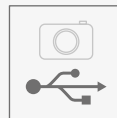
ASC objectives



MET Stage 3x2" / 6x4"



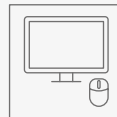
NEW Plan UC  
objectives



Integrated USB  
for camera power



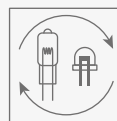
BD objectives  
(PantheraTEC MAT)



Without eyepiece tubes.  
Works through digital devices



Plan LM objectives  
(PantheraTEC MAT)



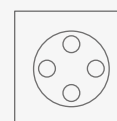
Halogen / LED  
interchangeability



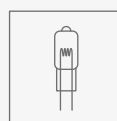
Plan UC objectives  
(PantheraTEC POL)



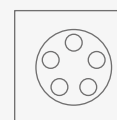
LED color temperature  
interchangeability



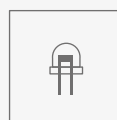
Quadruple nosepiece



Halogen illumination



Quintuple nosepiece



LED illumination

# Motic®

Canada | China | Germany | Spain | USA



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Design Change: The manufacturer reserves the right to make changes in instrument design in accordance with scientific and mechanical progress, without notice and without obligation.

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